

Dakai Liu and Elazar R. ani

Serial No. 09/046,840

Filed: March 24, 1998

Page 3 [Amendment Under 37 C.F.R. §1.161 (In Response To The October 7, 2003 Office Action) -- September 14, 2005]

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

Claims 1-84 (canceled)

85. (Currently Amended) A first vector comprising:

- i) retroviral sequences;
- ii) retroviral packaging component or components;
- iii) non-retroviral viral vector sequences; and
- iv) nucleic acid sequences coding for an exogenous gene or exogenous

nucleic acid sequence;

wherein when introduced into a packaging cell said first vector produces a second viral vector comprising:

- (a) said non-retroviral viral vector sequences; and
- (b) said exogenous gene or exogenous nucleic acid sequences,

wherein said second viral vector lacks said retroviral sequences (i); and

wherein said packaging cell provides one or more packaging components for said second viral vector.

86. (Previously Presented) The first vector of claim 85, wherein said retroviral sequences (i) comprise one or more Long Terminal Repeat (LTR) sequences.

87. (Previously Presented) The first vector of claim 85, wherein said retroviral packaging component or components (ii) comprise retroviral proteins.

**Enz-56(D3)**

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88. (Previously Presented) The first vector of claim 87, wherein said retroviral proteins are part of a surface or envelope of said first vector.

89. (Previously Presented) The first vector of claim 85, wherein said retroviral packaging component or components (ii) comprise at least two different retroviral proteins.

90. (Previously Presented) The first vector of claim 85, wherein said non-retroviral viral vector sequences (iii) comprise adeno-associated virus (AAV) sequences.

91. (Previously Presented) The first vector of claim 85, wherein said adeno-associated virus (AAV) sequences comprise Inverted Terminal Repeat (ITR) sequences.

92. (Previously Presented) The first vector of claim 85, wherein said second viral vector further comprises one or more promoters, or one or more enhancer regions, or an integration segment or a terminator.

93. (Previously Presented) The first vector of claim 85, wherein said second viral vector further comprises a combination of any or all of one or more promoters, one or more enhancer regions, an integration segment or a terminator.

94. (Previously Presented) The first vector of claim 85, wherein said exogenous gene or exogenous nucleic acid sequences code for a protein or an antisense sequence.

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95. (Previously Presented) A packaging cell of claim 85, wherein said packaging cell comprises a receptor for said first vector.

96. (Previously Presented) A packaging cell of claim 85, wherein said packaging cell lacks a receptor for said first vector.

97. (Previously Presented) A packaging cell of claim 85, wherein said packaging cell comprises a receptor for said second vector.

98. (Previously Presented) A packaging cell of claim 85, wherein said packaging cell lacks a receptor for said second vector.

99. (Previously Presented) A packaging cell of claim 85, wherein said packaging cell comprises a receptor for said first vector and a receptor for said second vector.

100. (Previously Presented) A packaging cell of claim 85, wherein said packaging cell lacks a receptor for said first vector and lacks a receptor for said second vector.

101. (Previously Presented) The packaging cell of claim 85, wherein said packaging cell is derived from NIH 3T3, U937, H9 or 293 cell lines.

102. (Previously Presented) The packaging cell of claim 85, wherein said packaging components for said second viral vector are derived from sequences stably integrated into a chromosome or chromosomes of said packaging cell.

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103. (Previously Presented) The packaging cell of claim 85, wherein said packaging components for said second viral vector are derived from transient expression of non-integrated nucleic acid sequences.

104. (Currently Amended) A cell line comprising:

- i) retroviral sequences;
- ii) non-retroviral viral vector sequences;
- iii) nucleic acid sequences coding for an exogenous gene or exogenous nucleic acid sequence; and
- iv) packaging component or components for said producing a non-retroviral viral vector ~~sequences~~.

105. (Previously Presented) The cell line of claim 104, wherein said retroviral sequences i) comprise all or a part of a retroviral LTR sequence.

106. (Previously Presented) The cell line of claim 104, wherein said non-retroviral viral vector sequences ii) comprise AAV sequences.

107. (Previously Presented) The cell line of claim 106, wherein said AAV sequences comprise ITR sequences.

108. (Currently Amended) The cell line of claim 104, wherein said ~~second~~ non-retroviral viral vector sequences further ~~comprises~~ comprise one or more promoters, or one or more enhancer regions, or an integration segment or a terminator.

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109. (Previously Presented) The cell line of claim 104, wherein said ~~second non-retroviral~~ viral vector sequences further ~~comprises~~ comprise a combination of any or all of one or more promoters, one or more enhancer regions, an integration segment or a terminator.

110. (Previously Presented) The cell line of claim 109, wherein said exogenous gene or exogenous nucleic acid sequences code for a protein or an antisense sequence.

111. (NEW) A packaging cell which comprises a first vector comprising:

- i) retroviral sequences;
- ii) retroviral packaging component or components;
- iii) non-retroviral viral vector sequences; and
- iv) nucleic acid sequences coding for an exogenous gene or exogenous

nucleic acid sequence;

wherein said first vector produces a second viral vector comprising:

- (a) said non-retroviral viral vector sequences; and
- (b) said exogenous gene or exogenous nucleic acid sequences; and

wherein said packaging cell: (i) lacks a receptor for said first vector, and (ii) provides one or more packaging components for said second viral vector.

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112. (NEW) A packaging cell which comprises a first vector comprising:

- i) retroviral sequences;
- ii) retroviral packaging component or components;
- iii) non-retroviral viral vector sequences; and
- iv) nucleic acid sequences coding for an exogenous gene or exogenous

nucleic acid sequence;

wherein said first vector produces a second viral vector comprising:

- (a) said non-retroviral viral vector sequences; and
- (b) said exogenous gene or exogenous nucleic acid sequences, and

wherein said packaging cell (i) lacks a receptor for said second vector, and (ii) provides one or more packaging components for said second viral vector.

113. (NEW) A packaging cell which comprises a first vector comprising:

- i) retroviral sequences;
- ii) retroviral packaging component or components;
- iii) non-retroviral viral vector sequences; and
- iv) nucleic acid sequences coding for an exogenous gene or exogenous

nucleic acid sequence;

wherein said first vector produces a second viral vector comprising:

- (a) said non-retroviral viral vector sequences; and
- (b) said exogenous gene or exogenous nucleic acid sequences; and

wherein said packaging cell (i) lacks a receptor for (a) said first vector, and (b) said second vector, and (ii) provides one or more packaging components for said second viral vector.

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